

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (currently amended): A digital communication system comprising:  
a channel state judging section for judging a channel states of an inputted signal by using a field sync of the inputted signal; and  
an equalizing section for compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,  
wherein the channel state is one of a static state and a dynamic state.

2. (currently amended): ~~The digital communication system as claimed in claim 1~~  
digital communication system comprising:  
a channel state judging section for judging a channel states of an inputted signal by using  
a field sync of the inputted signal; and  
an equalizing section for compensating for a channel distortion of the inputted signal by  
initializing a parameter on the basis of the judged channel state,  
wherein the channel state judging section comprises:  
a channel prediction section for predicting the channel states of the inputted signal by means of the field sync;

a plurality of buffers for storing the state information regarding a plurality of channels predicted by means of a plurality of the field syncs;

a calculating section for calculating a difference between the state information regarding the-N number of channels stored in the-N number of buffers, wherein N is a natural number; and

a judging section for judging the channel state on the basis of the calculated difference.

3. (original): The digital communication system as claimed in claim 2, wherein the judging section judges the channel states by means of a threshold value applied to the calculated difference.

4. (original): The digital communication system as claimed in claim 1, wherein the field sync is a PN sequence.

5. (currently amended): An operation method in a digital communication system, the method comprising the steps of:

(1) judging a channel states of an inputted signal by means of a field sync of the inputted signal; and

(2) compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein the channel state is one of a static state and a dynamic state.

6. (currently amended): ~~The method as claimed in claim 5~~ An operation method in a digital communication system, the method comprising the steps of:

(1) judging a channel state of an inputted signal by means of a field sync of the inputted signal; and

(2) compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein step (1) comprises the steps of:

(a) predicting the channel states of ~~an~~ the inputted signal by means of ~~a~~ the field sync;

(b) storing a-state information regarding N number of channels predicted by means of N number of ~~the~~ field syncs in N number of buffers, wherein N is a natural number;

(c) calculating a difference between the state information regarding the N number of the channels stored in the N number of the buffers; and

(d) judging the channel state on the basis of the calculated difference.

7. (currently amended): The method as claimed in claim 6, wherein, in step (d), the channel state is judged by means of a threshold value applied to the calculated difference.

8. (original): The method as claimed in claim 5, wherein the field sync is a PN sequence.

9. (currently amended): The digital communication system as claimed in claim 2,  
wherein a number N of the buffers equals a number N of the channels and a number N of the  
field syncs.